36-4-3,124

Control of Fighter Flight in Assial Combat (Cont.)

favorable backisal position for the attack in order to fire the Lowbern attacked and to maintain effectively at the initiative over them during the aerial combats. The determination of the distance from the enemy bumbers to the objective to be protected by fighter-intercaptors is very difficult while in flight. Therefore, the acommund post must inform the fighter flight commander on the flight opied. altitude, type, number, sombat order, and the direction of anemy hombers in relation to the fighter riight. Hefore taking the initial position for the attack, the flight commander should indicate, tiest, the mothed of ethack and only after that the marian targets to be attacked by wing pliots. During the attack, the flight commarder must watch the air attuation attentivery, in order to direct the wing pilots in the solution of the basis task. During the aerial combat, the wing pilota must keep substant visual centact with the filght commander, in order to execute certain state stone in accordance with the nature of the commandar's operation. The sameustyl coult it of

Oard 3/4

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Pathogenesis of the "infectious heart" and rheumocarditis [with summary in English]. Pediatriia 37 no.1:32-37 Ja '59.

(MIRA 12:1)

(TONSILITIS, exper.

ECG data & pathogen. of rheum. heart dis. in puppies (Rus))

(RHEUMATIC HEART DISEASE, exper.

pathogen. efter induction of tonsillitis in puppies (Rus))

(ELECTROCARDIOGRAPHT, exper.

eff. of tonsillitis in puppies (Rus))
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3.1200

78023 SOV/33-37-1-23/31

AUTHORS:

Sopel'nikov, M. D., Baulin, I. V.

TITLE:

A Spark Chronoscope for the Oscillographic Reception of

Time Signals

PERIODICAL:

Astronomicheskiy zburnal, 1960, Vol 37, Nr 1, pp 151-

155 (USSR)

ABSTRACT:

The use of Gestum and Ammoniac time standards requires increased accuracy in receiving time signals, say with an error of not more than O.1 msec. The chief difficulty is industrial and atmospheric noises. Thus, even when neon or spark chronoscopes are used for registering radio signals the errors amount to from 1-2 msec. The newly introduced oscillographic method makes it possible to estimate visually the shape of the signals received and choose the most trustworthy. This method is used widely in the Irkutsk Branch of the All-Union Scientific-Research

Institute of Physical and Radiotechnical Measurements (VNIIFTRI) and in the Khar'kov Institute of Measures and

Card 1/3

A Spark Chronoscope for the Oscillographic Reception of Time Signals

78023 **SO**V/33-37-1-23/31

Measuring Instruments (KhGIMIP). The essence of the method is that signals from a receiver and marks from an auxiliary device are sent simultaneously into an oscillograph. The standard marks are supplied by a synchronous motor which operates at a frequency of 1,000 Hertz and makes 10 rps. It carries a disk with four radial slits which transmit light impulses to a photocell connected with an electronic circuit and an oscillograph. This device at the Khar'kov Institute han reduced the accidental error of time signals from long-wave stations to not more than 0.5 msec , and the signals received from short-wave stations were registered The authors thank with errors of the order of 0.1 msec foreman E. M. Klopotovskiy, who helped construct the chronoscope, and assistants of the Irkutsk Laboratory, L. N. Nadeev and N. A. Tel'puknovskiy, for similar . help. There are o figures; and 2 references, both Soute:

Card 2/3

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3.9000

Bryzzhev, L.D., Leykin, A.Ya. and Sopel'nikov, M.D.

AUTHORS: TITLE:

A Determination of the Frequency of a Molecular Generator

and of the Irregularities in the Earth's Rotation

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol 37, Nr 3,

pp 579-583 (USSR)

ABSTRACT:

The molecular generator employing a beam of ammonia molecules at the Khar'kov State Institute of Measures and Measuring Instruments was described by Leykin in Ref 3. Systematic measurements of the frequency of this generator were begun in February, 1958. Regular

comparisons of its frequency in the UT-1 and UT-2 systems of astronomical time were also carried out. The molecular generator in the above standard does not function continuously and is only "switched on" for a time necessary for the comparison with quartz generators. It was therefore necessary to have continuously running clocks in order to determine the frequency in the

astronomical time system. KKh, clocks were used for Card 1/3 this purpose. These clocks are employed by the All-Union

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S/033/60/037/03/020/027 E032/E514

A Determination of the Frequency of a Molecular Generator and of the Irregularities in the Earth's Rotation

Time Service and the All-Union Scientific Research Institute for Physicotechnical and Radiotechnical Measurements who publish monthly corrections to these clocks in the bulletin "Standard Time". Morgover, daily time signals transmitted by the GBZ-10ⁿ Station (England) are also used in the determination of these corrections. These are further corrected in accordance with the data supplied by the Greenwich Observatory. The frequency of the generator in the KKh, clocks daily compared with the frequency of the molecular generator. A preliminary value for the frequency of the molecular generator, based on the data supplied by the time services of the Soviet Union and Great Britain, is now reported to be 23 870 129.395 kc/s + 0.012 kc/s. Data on the irregularities in the Earth's rotation in 1958 were obtained from the determination of the Card 2/3 frequency of the molecular generator in astronomical

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S/033/60/037/03/020/027 E032/E514

A Determination of the Frequency of a Molecular Generator and of the Irregularities in the Earth's Rotation

systems of time. It was found that the amplitude and phase of seasonal irregularities in the Earth's rotation during 1958 were practically the same as those in 1955-1956. The latter were obtained with the aid of the caesium standard. It is argued that the results obtained show that irregularities in the Earth's rotation can be determined with the aid of the molecular generator to the same accuracy as with the caesium standard.

There are 3 figures and 5 references 2 of which

There are 3 figures and 5 references, 2 of which are Soviet, 1 French and 2 English.

ASSOCIATION: Khar'kovskiy gosudarstvennyy in-t mer i izmeritel'nykh priborov (Khar'kov State Institute of Measures and Measuring Instruments)

SUBMITTED: October 6, 1959

Card 3/3

3,1550

\$/035/62/000/003/004/053 A001/A101

AUTHORS:

Sopel'nikov, M. D., Leykin, A. Ya., Bryzzhev, L. D.

TITLE:

Determination of non-uniformity in Earth's rotation by means of a

molecular standard of time and frequency

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 3, 1962, 15, abstract 3A119 ("Mezhdunar, geofiz, god, Inform, byul,", 1961.

no. 4, 29-32, English summary)

The authors describe the results of determining non-uniformity in Earth's rotation by means of a molecular generator put into *peration in the Time and Frequency Service of the Khar'kov State Institute of Measures and Measuring Instruments since February 1958. They present the magnitudes of irregular and seasonal variations in duration of day and give corrections for conversion from UT-1 time to UT-2 time for the period from March 1958 to March 1959.

Author's summary

[Abstracter's note: Complete translation]

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3.1550

AUTHOR: Sopel'nikov, M.D.

firle: Determination of the

Determination of the nonuniformity of astronomical time

with the aid of a maser

PERIODICAL: Astronomicheskiy zhurnal, v.39, no.2, 1962, 355-361

As reported by L. D. Bryzzhev, A. Ya. Leykin and the TEXT: author of this paper (Ref.1: Astron. zh., 37, 579, 1960) the maser frequency standard at the Khar'kov State Institute for Measures and Measuring Instruments is compared daily with the readings of a quartz clock at that Institute. In order to determine the irregularity in the rotation of the earth and to calculate the corrections necessary to convert UT-1 to UT-2, use was made of the quartz clock data in "Etalonnoye vremya" (Standard Time Bulletin) In addition, time signals from GBR-10 and the for 1958-1960. corresponding corrections published by the Greenwich Observatory Numerical data are reported for the various were also employed. corrections due to the nonuniformity in the rotation of the earth. It was found that between March, 1958 and June, 1959 the length of day was reduced by 0.45 msec. By March, 1960 there was an increase Card 1/2

Determination of the ...

5/033/62/039/002/013/014 E032/E514

of 0.16 msec. A rapid seasonal variation in the length of day in 1959, reaching 1.3 msec over a period of three months, was also noted. On the other hand, between November, 1958 and May, 1959 the seasonal changes were of the order of only 0.3 msec. Corrections which can be used to convert quartz clock readings to the maser readings are given for March, 1958-March, 1960. There are 2 figures and 4 tables.

ASSUCIATION:

Khar'kovskiy gos. institut mer i izmeritel'nykh

priborov

(Khar'kov State Institute for Measures and

Measuring Instruments)

SUBMITTED:

December 17, 1960 (initially) July 31, 1961 (after revision)

Card 2/2

L 8624-65 EWG(j)/EWA(k)/EWT(d)/FBD/EWT(l)/EEC(k)-2/EWG(v)/EEC(t)/T/EWP(k)/
EEC(b)-2/EWA(h)/EWA(m)-2 Pn-4/Po-4/Pe-5/Pq-4/Pac-4/P1-4/Pg-4/Pac-2/Pab/
Pi-4/Pk-4/Pl-4 LJP(c)/ASD(a)-5/AFWL/AFETR/BSD/ESD(gs)/RAEM(a)/ESD(t)/RAEM(c)
ACCESSION NR: AR4038674 WG/GW 8/0269/64/000/003/0016/0018

SOURCE: Ref. sh. Astron. Otd. vy.p., Abs. 3.51.152

AUTHOR: Sopel'nikov. M. D.

TITLE: Preliminary results of the use of a maser in the time service of the Khar'kov State Institute of Measures and Measuring Instruments

CITED SOURCE: Tr. 15-y Astrometr. konferentali SSSR, 1960. M.-L., AN SSSR, 1968,

TOPIC TAGS: maser, time service, quarts olock, earth rotation, molecular clock

TRANSLATION: It is noted that the systematic control of quarts clocks by use of a maser makes it possible to introduce corrections to the readings of quarts clocks in order to obtain uniform molecular time, against whose background it is possible to detect nonuniformity of the earth's rotation. A graph accompanying the text shows the mean monthly values of the diurnal rates of the molecular clocks (reference maser + quarts clock) for the period from March 1958 through September 1960. On the basis of this graph the conclusion is drawn that on the background of variation of the rate of the molecular clocks of the Khar'kov State Institute of Measures Cord 1/2

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ACCESSION NR: AR4088674			CALL TO	0	
March 1958 through March 1959 possible reason is a monoton the eriod mentioned. Later ton: changes, but there were attaining almost 1.5 mass (f	nic increase in the september of the sep	the rate of the ra	o were virtually	• The on during no mono-	
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MIKHALOVSKIY, A.G.; SOPEL'NYAK, M.M.

Preplanting treatment of clover seed with solutions of microelements. Sovet. Agron. 11, No.3, 70-2 '53. (MLRA 6:3) (CA 47 no.14:7146 '53)

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1. Kiev Agr. Inst.

USKOV, A.A., red.; RZHEVSKIY, V.V., prof., doktor tekhr. rauk, red.; SOKOLOVSKIY, M.M., red.; MIKHAYLERKO, I.G., red.; BUGOSLAVSKIY, Yu.K., red.; SCHITSKIY, V.V., red.; VINITSKIY, K.Ye., red.; STAKHEVICH, Ye.B., red.; KENIS, S.I., red.; MERZON, A.S., red.; SITNIKOV, V.P., red.; SOFESHKO, N.F., red; BLAYVAS, M.S., red.

[Studies of the All-Union Scientific and Technical Con-Ference on improving the equipment and technology of mining minerals by the open pit method] Naterialy Vsesoiuznogo nauchno-tekhnicheskogo soveshchania po sovershenstvovaniiu tekhniki i tekhnologii razrabotki poleznykh iskopaemykh otkrytym sposobom. Moskva, Nedra, 1965. 285 p. (MIRA 18:6)

1. Vsesoyuznoye nauchno-tekhnicheskoye soveshchaniye po sovershenstvovaniyu tekhniki i tekhnologii razrabotki poleznykh iskopayemykh otkrytym sposobem, Cheremkhovo, 1964. 2. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki (for kzhevskiy). 3. Glavnyy spetsialist Gosudarstvennogo komiteta tyazhelogo, energeticheskogo i transportnogo mashinostroeniya pri Gosplane SSSR (for Bugoslavskiy).

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

SOLICKI, S.

More about Czechoslovakia in 1938. F. 2h BFLIONA. (Instytut Historyczny im. Gen. Sikorskiego) London. No. 3, July/Sept. 1955

SCURCE: ELAL LC Vol. 5, no. 7, July 1956

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

s/081/62/000/024/045/052 B106/B186

Kraul, Emil, Clapinski, Jan, Sopiela, Wacław, Sobolewski, AUTHORS:

Marian, Rybicki, Zbigniew

Methods for producing a fiber from polyvinyl alcohol TITLE:

Referativnyy zhurnal. Khimiya, no. 24 (II), 1962, 953,

abstract 24P1034 (Pol. patent 44511, June 10, 1961) PERIODICAL:

TEXT: A method is described for the production of a fiber from polyvinyl alcohol by coagulation from aqueous solutions in a bath, dehydration and simultaneous stretching of the deposited fiber, removal of part of the salt contained in the fiber by washing, drying of the fiber, thermal treatment and acetalation. The method distinguishing features of this are as follows: the spinning solution flows from the spinneret into the coagulating bath at a velocity of 12 - 13 m/min. It then follows its course at an angle of 90°. The fiber leaves the coagulating bath at 15 m/min; there is a distance of 130 - 150 cm between the exit of the spinning solution from the spinneret and the point at which the fiber changes its direction in the bath. The excess from this bath is removed Card 1/2

Methods for producing a fiber from ... S/081/62/000/024/045/052 B106/B186

and the fiber is passed through a washing bath which consists of an aqueous solution of sodium sulfate (concentration 140 - 155 g/1). The pH value of the spinning solution and coagulating bath is adjusted to 7 as to yield a spinning solution of polyvinyl alcohol containing $\langle 0.2\%$ by weight of ashes. The maximum moisture of the dried fiber is 3% and the maximum drying temperature is 120°C . Before it is dried the fiber ought to contain 35-37% by weight of polyvinyl alcohol, 58-60% by weight of water, and 5-7% by weight of salt. The temperature of the washing bath is $25-29^{\circ}\text{C}$, the washing time of the fiber is ~ 1 min. [Abstracter's note: Complete translation.]

Card 2/2

S/081/62/000/024/047/052 B134/B102

AUTHORS:

Sopiela, Wackar; Myszkorowski, Tadeusz; Osiński, Witold;

Jabłosński, Henryk

TITLE:

Method for strengthening of casein fiber

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24(II), 1962, 957,

abstract 24P1059 (Polish pat., no. 45355, February 14, 1962)

TEXT: The freshly-shaped fiber is first treated in a bath containing ammonium salts and then in a formalin bath. The fiber-strengthening method is characterized by the following stages: the shaped fiber is treated in free position in a bath containing 90-110 g/l Al₂(SO₄)₃ for 8-10 min at $60-65^{\circ}$ C; then it is stretched at $20-30^{\circ}$ C for 25-35 sec in a formalin bath containing 30-32 g/l formaldehyde, 25-40 g/l Al₂(SO₄)₃, 120-150 g/l Na₂SO₄, 30-40 g/l NaCl, and 10-15 g/l H₂SO₄. After this, the fiber is treated in the same bath in free position for 1 hr, and finally also in free position at $60-70^{\circ}$ C for 30-60 min in a bath

Card 1/2

Method for strengthening of ...

S/081/62/000/024/047/052 3134/3102

containing 30-35 g/l formaldehyde, 20-25 g/l Al₂(SO₄)₃, 150-170 g/l Na₂SO₄, 30-40 g/l NaCl, and 100-105 g/l H₂SO₄. The further treatment of the fiber (washing, dressing, and drying) is carried out by the standard methods. The fiber obtained shows an increased resistance to hot water. The fiber left in water at 80°C for 1 hr does not lose its fibrous character. [Abstracter's note: Complete translation.]

Card 2/2

SOPIELA, Waclaw; CYPRYK, Jerzy; MASLOWSKI, Edward.

Stability of polyvinyl alcohol solutions used for spinning purposes. Polimery tworz wielk 8 no.9:345-347 *63.

1. Instytut Wlokien Sztucznych i Syntetycznych, Lodz.

OMIFIA, Waclaw; KAPFCKA, Torosa: CYPRYK, Joray

Studies on the course of acetilization of polyvinylalcohol fibers with formaldehyde. Polimery tworz wielk 9 no.3:107-110 Mr '64.

1. Institute of Artificial and Synthetic Fibers, Lodz.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

Pc-4 PO/0002/64/000/004/0153/0161 ACCESSION NR: AP5014786 Sopiela, Vaclay (Master engineer, Director) (Lods) Institute of Synthetic Fibers TITLE: SOURCE: Nauka Polska, no. 4, 1964, 153-161 TOPIC TAGS; chemical research facility, synthetic material Abstract: The article reports on the activities of the Institute which serves as a field station for the Ministry of Chemical Industry. Its organization and break-down into individual departments is explained first. This is followed by a discussion of the major research projects, namely: development of vitreous silk and cordal silk, which are the two outstanding achievements among a hole series of minor ones. The efforts of the Institute are directed toward the study of viscous fibers, physical and chemical methods of fiber analysis, also fiber processing experiments. Results of research are well documented and made available by publication in: the bimonthly "Biuletyn Informacyjny- Wickna Sztuczne" (Information Bulletin- Synthetic Fibers) and "Przeglad Bibliograficzny-Card 1/2

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Synthetic Fiber	netytut Vlokien Satuesa	ych i Syntetycznyci	i, Lods (Institute	or	talia Anta
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SOPIELA, Waclaw

The Research Institute of Artificial and Synthetic Fibers. Review Pol Academy 9 no.4:38-41 O-D '64.

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

1. Director, Institute of Artificial and Synthetic Fibers, Lodz. Submitted January 1964.

SOPIELA, W.; KAPECKA, T.; GYPRYK, J.

Effect of acetylation on the properties of polyvinyl alcohol fibers. Przegl włokien 18 no.10:445-448 0 '64.

SOPIKOY. N.F.

Method of recording the volume of inspired air. Fiziol.zhur. 42 no.7:604-606 Jl 156. (MLRA 9:10)

1. TSentral'nyy nauchno-issledovatel'skiy ispytatel'nyy institut voyennoy meditsiny, Moskva.

(RMSPIRATION,
registration of volume of expired air (Rus))

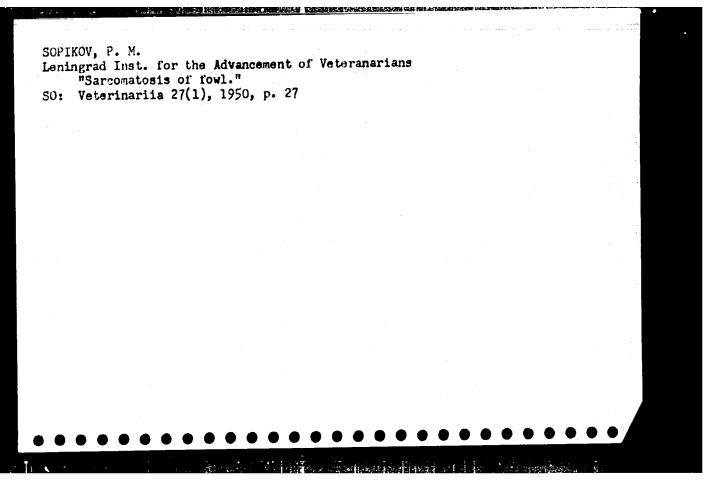
PATRUEHEV, G.A.; SOPIKOV, N.F.

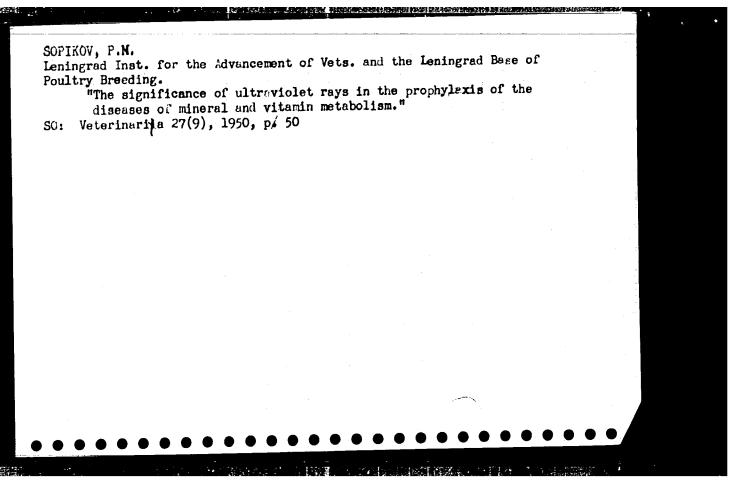
Method of studying the effect of medicinal substances and poisons on the phrenodiaphragmal conductivity. Farm. i toks. 28 no.5:625-626 S-0 *65. (MIR: 18:12)

 Voyenno-meditsinskaya ordena Lenina akademiya imeni S.M. Kirova, Leningrad. Submitted March 4, 1965.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

4766. CONNERSION OF VE-300 DIESEL TO NATURAL GAS. Stukalov, K.V. Sopikov, P.F. and Ivanov, V.A. (Moscov: Gostoptekhizakt, 1931 56pp. June 1952, 7-9). A schome for the conversion of an engine used in Soviet oil fields is described. The sork, including alterations to valve timing, can be done in field sorkshops. A saving of 73 to 82% of liquid fuel is claimed.





"Transmission of Hereditary Characteristics Through Blood Transfusion," P. M. Sopikov, Lenin-USSR/Biology - Genetics grad Base, Sci Res Inst of Poultry Breeding *Agrobiologiya" No 6, pp 121-125 from a rooster of a different strain [II a]. The progeny exhibited characteristics of both strains. II with roosters of the same pure strain /II/, after which the hen received a blood transfusion Describes expts on mating hens of a pure strain IIa (denor) a black Astrolorp, the mixed strain Thus, when I and II were pure white Leghorns and SOPIKOV, P. M USSR/Biology - Genetics and white spotted feathers. The phys charwas white with black feathers, or had black acteristics of the mixed strain were pullorosis) was increased by the hybridizaproved and its resistance to disease (e.g., rabbits. Sopikov advocates experimentation 1948, about 1,000 such chickens have been tion carried out in this manner. Since bred. Similar results were obtained on on interspecies and intergenus crossing by regular crossing between animals thus this method, so as to achieve ultimately trought nearer together in phys characteristics. (Contd) Nov/Dec 51 Mov/Dec 51 20013 3 33.7630

- 1. SOPIKOV, P. M.
- 2. USSR 600
- 4. Poultry
- 7. Action of ultraviolet rays on the growth, metabolism of minerals, and resistance to disease of chicks, Trudy NIIP, 22, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

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SPIKOV, P. M. and TOLOKONNIKOV, Ye. V.

"On marked changes of the character of the color of the feathers in the offspring of chickens that underwent a transfusion of the blood of another species of fowls."

reported at Conference of Problem of Heredity and Variability, held at Institute of Genetics, AS USSR, 8-14 Oct 1957
Vestnik AN SSSR, 1958, Vol. 28, No. 1, pp. 127-129 (author Kushner, Kh. F.)

83817

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S/190/60/002/005/007/015 B004/B067

15.8114

AUTHORS:

Petrov, K. A., Nifant'yev, E. Ye., Sopikova, I. I.

TITLE:

Phosphorous Polymers. II. Use of the Arbuzov Rearrangement

for Synthesizing Polyphosphonates

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 5.

pp. 685-688

TEXT: The authors used the Arbuzov reaction for synthesizing polymer phosphinic esters. Polymerization occurs on heating 1 mole of cyclic phosphinites with 0.001 - 0.1 mole of methyl iodide in a sealed tube. Polyphosphinites are formed with a molecular weight of 270 · 3200. The hitherto unknown cyclic phosphinites were obtained by reacting dichlorophosphines with 1,3-diols in the presence of tertiary amines: phenyl-(1,3-butylene) phosphinite and phenyl-(1,3-propylene) phosphinite. The reaction with CH₃I is a recurring alkylation reaction with

Card 1/2

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Phosphorous Polymers. II. Use of the Arbuzov Rearrangement for Synthesizing Polyphosphonates

S/190/60/002/005/007/015 B004/B067

 $\begin{array}{c} R & O \\ CH_{3} & P-O \end{array} \left[-\left(CH_{2}\right)_{n} - P-O \right]_{m} - \left(CH_{2}\right)_{n} - I \text{ as final product. The structure of the} \end{array}$

central member could be proved by cleaving the phenyl-(1,3-butylene) phosphinite polymer by means of phosphorus pentachloride. Phenyl-(1, methyl-3-chloropropyl)phosphinyl chloride was obtained. The results of polymerization of phenyl-(1,3-butylene) phosphinite with various additions of methyl iodide are given in a table. There are 1 table and 2 references: 1 Soviet and 1 US.

SUBMITTED:

January 15, 1960

Card 2/2

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PETROV, K.A.; NIFANT'YEV, E.Ye.; SOPIKOVA, I.I.; BUDANOV, V.M.

The result of the second secon

Synthesis of dialkylacyl phosphites and alkylacyl phosphinites.

Zhur.ob.khim. 31 no.7:2373-2377 J1 '61. (MIRA 14:7)

(Phosphorous acid) (Phosphinic acid)

SOPIKOVA, I.I. SOV/6034 PHASE I BOOK EXPLOITATION Konferentsiya po khimii i primeneniyu fosfororganicheskikh soyedineniy. 2d, Kazan', 1959 Khimiya i primeneniye fosfororganicheskikh soyedineniy; trudy (Chemistry and Use of Organophosphorus Compounds; Conference Transactions) Moscow, Izd-vo AN SSSR, 1962, 630 p. Errata slip inserted, 2800 copies printed, Sponsoring Agency: Akademiya nauk SSSR. Kazanskiy filial. Resp. Ed.: A. Ye. Arbuzov, Academician; Ed. of Publishing House: L. S. Povarov; Tech. Ed.: S. G. Tikhomirova. PURPOSE: This collection of conference transactions is intended for chemists, process engineers, physiologists, pharmacists, physicians, veterinarians, and agricultural scientists. COVERAGE: The transactions include the full texts of most of the scientific papers presented at the Second Conference on the Chemistry and Use of Card 1/14

43 SOV/6034 Chemistry and the Use of Organophosphorus (Cont.) Organophosphorus Compounds held at Kazan' from 2 Nov through 1 Dec 1959, . The material is divided into three sections: Chemistry, containing 67 articles; Physiological Activity of Organophosphorus Compounds, containing 26 articles; and Plant Protection, containing 12 articles. The reports reflect the strong interest of Soviet scientists in the chemistry and application of organophosphorus compounds. References accompany individual reports. Short summaries of some of the listed reports have been made and are given below. TABLE OF CONTENTS: [Abridged]: 3 Introduction (Academician A. Ye. Arbuzov) TRANSACTIONS OF THE CHEMISTRY SECTION Gefter, Ye. L. [NII plastmass (Scientific Research Institute of Plastics, Moscow). Some Prospects for the Industrial Use of Organophosphorus 46 Compounds Card 2/14

Chemistry and the Use of Organophosphorus (Cont.)

SOV/6034

substituted phosphoric and phosphonic acids, as well as phosphorus-containing catalysts, have been synthesized and studied.

Petrov, K. A., V. A. Parshina, and G. L. Daruze. Phosphorus-Containing Polyester and Polyamide Resins

285

Bis-(p-carboxyphenyl)phosphonic acid, its esters, and salts, as well as amides and chlorides, have been obtained and for the first time described in the scientific literature. Organophosphorus polyesters and polyamides based on ethylene glycol, diethylene glycol, hexamethylenediamine, and bis-(p-carboxyphenyl)phosphonic acid and capable of forming fibers have been obtained and described.

Retrov, K. A., E. Ye. Nifant'yev, and T. I. Sopikova. Application of Arbuzov's Rearrangement to the Synthesis of Polyphosphonates

Previously unknown cyclic phenyl phosphonites have been obtained by the interaction of phenyldichlorophosphine with 1,3-glycol. The cyclic phosphonites polymerize under the action of methyl iodide,

292

Card 7/14

\$/0000/63/000/000/0086/0089

AUTHOR: Petrov, K. A.; Nifant'yev, E. Ye.; Sopikova, I. I.; Merkulova, M. I.

ACCESSION NR: AT4017411

TITLE: Phosphorylated polysaccharides. III. Phosphorylation of cellulose by dialkyl-(aryl)phosphires

SOURCE: Tsellyuloza i yeye proizvodnywye, sbornik statey (Cellulose and its derivatives). Moscow, 1963, 86-89

TOPIC TAGS: polysaccharide, cellulose, phosphorylated polysaccharide, cellulose phosphorylation, phosphorylation, dialkylphosphite, diarylphosphite

ABSTRACT: On the basis of the authors' previous work, the following studies were conducted: (1) phosphorylation of cellulose by di-\(\theta\)-chloroethylphosphite, di-\(\theta\)-chloroethylphosphite, and diphenylphosphite; (2) reaction of cellulose phosphite with tetraethylmethylenediamine; and (3) reactions of cellulose phosphite with chloral, diethyldisulfide, ethylsulfenechloride, and ethylthlocyanate. In the phosphorylation, 0.5 g of cellulose (cotton wool, thread and \(\pi\)-d), dehydrated by washing with absolute alcohol, was reacted at 110, 130, 150 or 165C for 30 or 60 hrs. with 25 g of the reagents in a stream of nitrogen at a pressure of 50-60 mm Hg. After removal of the excess phosphite by filtration, the product was washed with methanol and ether and vacuum-dried over P205. The AP and C1 content of 4.27-Cord 1/3

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	ACCESSION NR: AT4017411	
1	8.56% and 2.97—9.06%, respectively, was found in the product, obtained from cotton wool, while lower results were achieved with viscose thmad and cord. Di- β -chloro- and di- β -fluoroethylphosphites were found to be better suited for the reaction. In the reaction with tetra-ethylmethylenediamine and disulfides, conversion of cellulose phos-	*.
•	phites into α -hydroxy- and α -aminophosphonates and thiolophosphates was also accomplished by the reactions	
	ocilulose op OcilaCHaCl (C,Ha),NCHaN(C,Ha), cellulose op OcilaCHaCl CilaN (Calla)a;	
*****	cellulose OP OCH, CH, CH, SCHO cellulose OP OCH, CH, CI	
:	Orig. art. has: 1 table.	
	ASSOCIATION: none	
	Card 2/3	

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

SUBMITTED: 12Apr62 ATD PRESS: 3045 ENCL: 00
SUB CODE: OC NO REF SOV: 006 OTHER: 002

ACCESSION NR: AT4017412

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encendescence in the Campadises

AUTHOR: Petrov, K. A.; Nifant'yev, E. Ye.; Sopikova, I. I.; Belavintsev, M. A.

TITLE: Phosphorylated polysaccharides. IV. A method for phosphorylating cellulose using phosphorous acid

SOURCE: Tsellyuloza i yeye proizvodny*ye, sbornik statey (Cellulose and its deri-vatives). Moscow, 1963, 90-93

TOPIC TAGS: polysaccharide, polysaccharide phosphorylation, cellulose, cellulose phosphate, phosphocellulose, phosphorylation

ABSTRACT: Cellulose was phosphorylated by phosphorous acid using 3 different procedures: (1) reacting cellulose and molten phosphorous acid at 100C for 10 hours in a current of dry nitrogen, yielding a product containing 15-17%P;(2) in dimethylformamide or o-xylene solutions in a series of 20 to 60-hour tests at 130 and 160C yielding a product containing 4.8-12.2% P; (3) prolonged (2-3 days) heating at 80-140C in an atmosphere of an inert gas, which proved to be the most suitable since it yielded products containing up to 14%P. Different kinds of cellulose were tested, and the one swellen in water or pyridine was found best. The P-content in the product increased with the concentration of phosphorous acid up to a certain limit, the optimal ratio being one in which there is slightly more than Cord 1/2

ACCESSION NR: AT4017412

one phosphorous acid molecule for each β , d-glucose unit in the reacting mixture. Orig. art. has: 2 graphs and 1 table.

ASSOCIATION: none

SUBMITTED: 12Ju162

DATE ACQ: 06Jan64

SUB CODE: CH

NO REF SOV: 006

Card 1/2

RM/WW EWP(j)/EPF(c)/EWT(m)/BDS Pc-li/Pr-li \$/0020/63/151/004/0859/0861 17550-63 AP3004425 ACCESSION NR: Petrov, K. A.; Nifant'yev, E. Ye.; Sopikova, I. I. AUTHORS: TITLE: Phosphorylation with acylphosphites. SOURCE: AN SSSR. Doklady*, v. 151, no. 4, 1963, 859-861 TOPIC TAGS: phosphorylation, acylphosphite, alcohol, acid phosphonate ABSTRACT: The purpose of this work was to develop new methods for phosphorylating hydroxyl compounds. Tribenzoylphosphite and butylene-1,3-acetylphosphite were used at relatively low temperatures in the presence of triethylamine. Tertiary phosphites were formed in high yields with primary, secondary, and tertiary alcohols and with acid phosphonates such as the monopropyl ester of methylphosphinic acid. They can also be used for phosphorylating carbohydrates and other natural products. The reaction of these acylphosphites with phosphoxanthogenates produced thiophosphates and other sulfur-containing compounds. These phosphorylating agents can be obtained readily by reacting PCl3 or butylene-1,3-chlorophosphite with metallic salts of the corresponding carboxylic acid. Phosphoxanthogenates were produced by reacting PCl3 and chlorophosphines with salts of alkylxanthogenic acids. Syntheses of the following are described: tributylphosphite; 1,3-butylenebutylphosphite; 1,3-butyleneisopropylphosphite; 1,3-butylene-tert.butylphosphite;

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and furo	0,0-1, ylphos	3-butyl phite i	lene-	0-prop	ylmethy: cribed.	lsubpho The	osphonate origina	. The p	preparat:	lon of tr	i-Alpha- ulas.	-	
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PETROV, K.A.; NIFANT'YEV, E.Ye.; SOPIKOVA, I.I.; LEVITAN, L.P.

Synthesis and some properties of dialkyleyclohexyl phosphates. Zhur.prikl.khim. 37 no. 5:1132-1135 My '64. (MIRA 17:7)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

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,	L 8946-66 EHT(m)/EHP(j), T/ETC(m) HH, HM	<u>a</u>
	ACC NR: AP5026522 SOURCE CODE: UR/0286/65/000/019/0066/006	Ь
	AUTHORS: Petrov, K. A. Sopikova, I. I.	
	ORG: none	
	TITLE: Method for fireproofing woody materials, such as sawdust. Class 38, No. 1752 /announced by Military Academy for Chemical Defense (Voyemaya akademiya khimicheskoy zashchity)	r
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 66	
	TOPIC TAGS: fireproofing, sawdust, phosphoric acid, ester, wood product	
	ABSTRACT: This Author Certificate presents a method for <u>fireproofing</u> woody materials such as sawdust, by treating them in the dry state with phosphorus-containing substances. To increase the degree of fireproofing, the sawdust is kept immersed for 24 hours at room temperature in anhydrides of alkyl (aryl) phosphorous acids or ester anhydrides of phosphoric acid. Prior to immersion, the phosphor-containing compounds are heated to 70-80C. The treated sawdust is then heated for 20-40 min at 130160 filtered, washed with hot dimethylformamide, and dried.	
	SUB CODE: 07/ SUBM DATE: 31Jul64	
	Cord 1/1 (J) UDC: 674.049.3	
	2	

EV/T(m)/ETC/EY/G(m)/EY/P(j)/T/ETC(m) ACC NR: AP5025953 SQURCE CODE: 010/1667/1669 AUTHOR: Petrov, K.A.; I.; Nifant'vev. Sopikova, ORG: None TITLE: Phosphorylation of polysaccharides. Phosphorylation of cellulose with alkyl(aryl)phosphinic anhydrides SOURCE: Vysokomolekulyarnyye soyedineniya, v.7, no. 10, 1965, 1667-1669 TOPIC TAGS: phosphorylation, cellulose, cellulose plastic, organic phosphorus compound, phosphinic acid, ion exchange resin, heat resistant material ABSTRACT: A new method of phosphorylating cellulose with alkyl(aryl) phosphinic anhydrides gave alkyl(aryl)celluloge phosphonates with potential as ion exchange or fire-resistant materials !5 Cellulose was reacted with methylor phenylphosphinic anhydride to form acid methyl(phenyl)cellulose phosphonates heretofore not described in the literature. Products containing a maximum of UDC: 661.728.87

Card 1/2

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ACC NR: AP5025953

about 10% phosphorus were obtained by reaction at 130-140 using 3-5 moles of anhydride for each alpha-d-glucose chain. The cellulose phosphonates are not distinguishable externally from the initial cellulose; they are incombustible when they contain about 4% or more of phosphorus. Orig. art. has: 1 table and 1 equation.

SUB CODE: OC SUBM DATE: 05Oct64/ ORIG REF: 005/ OTH REF: 001

Cord 2/2

BEKTUROV, A.B., akudemik; TIEHONOV, V.V., kand. tekhn. nauk; ESIK, V.K.; SORILIDI, V.N.

Concentrated fertilizer of the calcium metaphosphate type produced from the Karatau phosphorites. Vest. AN Kazakh. SSR 21 no.12:6-14 D 165. (MIRA 18:12)

1. Akademiya nauk Kazakhakoy SSR (for Bekturov).

GERSHUN, N.O.; RADYNSKAYA, S.M.; SOPIL'NICHENKO, L.Ye.; SHUSTOV, A.M.

Purther improvement of the bonus wage system in the shoe industry.

Kozh.-obuv.prom. 6 no.1:22-26 Ja '64. (MIRA 17:4)

SOPIL'NIK, A.Yu. (g. Stanislav (obl.), ul. Kasprivka, 38/1)

Evaluation of the functional sufficiency of gastric collaterals based upon the dynamics of its periodic and evacuatory activity.

Arkh.anat.gist.i embr. 37 no.11:90-96 N *59. (MIRA 13:4)

Kafedra normal'noy anatomii (zaveduyushchiy - prof. Ye.P.
 Mel'man) i kafedra normal'noy fiziologii (zaveduyushchiy - dotsent
 V.S. Raytses) Stanislavskogo meditsinskogo instituta.
 (STOMACH blood supply)

SOPIL'NIK, A.Yu. [Sopil'nyk, A.IU.]

Adaptation of the gastric collaterals in conditions of disturbed blood circulation. Dop. AN URSE no.8:1081-1086 [61. (MIDA 14:9)

1. Stanislavskiy meditsinskiy institut. Predstavleno akademikom AN USSR V.G. Kas'yanenko [Kas'ianenko, V.H.].
(Gastroenterology)
(Blood--Circulation, Disorders of)

SOPIL'NIK, A.Yu. (Stanislav)

Periodic motor activity of the stomach in collateral circulation. Pat.fiziol.i eksp.terap. 6 no.2:58-62 Mr-Ap '62. (MIRA 15:8)

1. Iz kafedry normal'noy fiziologii (zav. - dotsent V.S.Raytses) i kafedry normal'noy anatomii (zav. - prof. Ye.P.Mel'man) Stanislav-skogo meditsinskogo instituta.

(STOMACE-BLOOD SUPPLY)

SOPILTHIK, A.Yu.

State of the evacuatory action of the stomach following experimental interruption of the blood supply. Biul.eksp. biol. i med. 55 no.1:48-52 Ja*53. (MIMA 16:7)

l. Iz kafedry normal'noy anatomii (zav. - prof. Ye.P.Mel'man) i kafedry normal'noy fiziologii (zav. - dotsent V.S. Raytses) Stanislavskogo meditsinskogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR A.V.Lebedinskim.

(GASTROINTESTINAL MOTILITY)

(STOMACH—BLOOD SUPPLY)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

MEL'MAN, Ye.P.; RAITSES, V.S.; SOPIL'NIK, A.Yu.

Reentgenological data on the evacuating motor activity of the stomach in an experimental disorder of blood circulation.

Vrach. delo no.2223-30 F*64 (MIRA 17:4)

1. Kafedra namal'noy anatomii (zav. - prof. Ye.P. Mel'man) i kafedra nomal'noy fiziologii (zav. - dotsent V.S. Raytses) Ivano-Frankovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

AVIOSOR, M.L.; BOBER, I.P.; MFL'MAN, Ye.P.; SOPIL'NIS, A.Yu.
Relation of the degree of experimental disorders of the arterial

supply of the liver to peripheral blood proteins. Fat. fiziol. 1 eksp. terap. 8 no.4:42-47 J1-Ag '64. (MIPA 18:2)

1. Kafedra fakul'tetskoy terapii (rav. - prof. M.L. Aviosor) i kafedra normal'noy anatomii (rav. - prof. Ye.F. Mel'man) Ivanovo-Frankovskogo meditsinskogo instituta.

MELIMAN, Ye.F.; SOPILINIK, A.Yu.; AVIOSOR, M.L.; BOBER, I.F.

Structural changes in the arterial bed of the dog liver and dynamics of some of its functional indices in experimental ischemia. Arkh. anat., gist. i embr. 47 no.10:23-35 0 164. (MIRA 18:6)

1. Kafedra normal'noy anatomii (zav. - prof. Ye.F.Mel'man) i kafedra fakul'tetskoy terapii (zav. - prof. M.L.Aviosor) Ivano-Frankovskogo meditsinskogo instituta.

NEYKO, Ye.M., BOYTHINIE, A.Yu.

Changer in liver function in peritonible during disorders of its arternalization. Pat. fiziel. 1 eksp. terap. 9 no.3: 61-63 My-Je '65. (MIEA 18:9)

1. Kafedra patologicheskoy fiziologii (zav. doktor med. nauk S.M. Mints) i krfedra normal'noy anatomii (zav. prof. Ye.P. Mel'man) lvanc-Frankovskogo meditsinskogo instituta.

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SOPIL'NIK, A.Yu.

State of the venous bed and evacuatory-motor activity of the stomach in the experimental disturbance of blood circulation. Arkh. anat., gist. i embr. 48 no.6:37-43 Je '65. (MIRA 18:7)

1. Kafedra normal'noy anatomii (zav. - prof. Ye.P.Mel'man) Ivano-Frankovskogo meditsinskogo instituta.

SOPILINIK, A.YH., COPILINIK, V.M.; SOLODKAYA, M.A.

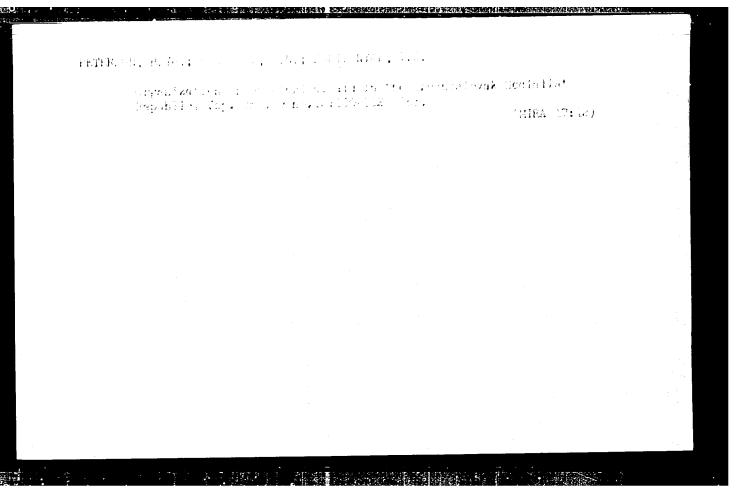
Interrelation between the state of blood supply and the evacuation-motor function of the duodenum under the conditions of collateral blood flow. Arkh.anat., gist. i embr. 49 no.10:22-26 0 165. (MIRA 18:12)

1. Kafedra normal'noy anatomii (zav. - prof. Ye.P.Mel'man) Ivano-Frankovskogo maditsinakogo instituta. Submitted Jan. 18, 1965.

COPILINIE, A.Yu., COPILINIE, V.M., SOLOBEAYA, M.A.

Interrelation between the state of blood supply and the evacuation-motor function of the duodenum under the conditions of collateral blood flow. Arkh.anat., gist. i embr. 49 no.10422-26 0 165. (MIRA 18412)

1. Kafedra normal'noy anatomii (zav. - prof. Ye.P.Mel'man) Ivano-Frankovskogo meditsinakogo instituta. Submitted Jan. 18, 1965.



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1.			

- 2. vs31 (600)
- 4. Lips-Cancer
- 7. Short-focus roentgenotherapy of ulcerative and infiltrating forms of cancer of the lower lip. Vest. rent. i rad. no. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

SOPIL'NYAK, M.G.; PAMPE, V.E., glavnyy vrach.

Results of short focus X-ray therpay of pre-cancerous changes in the lower lip. Vest.rent.i rad. no.3:59-62 My-Je 153. (MLRA 6:8)

1. Respublikanskiy onkologicheskiy dispanser Ministerstva zdravockhraneniya Latviyskoy SSR. (Lips--Cancer) (X-rays--Therapeutic use)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

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Card 1/1 : Pub 132 5/22

Author : Sopil'nyak, M. G.

Title : Short focus X-ray therapy of relapses in cancer of the lower lip

Periodical: Vest. Rant. i Rad. 26-30, May/June 1954

Abstract : Short focus X-ray therapy is a simple and effective means of treating

local relapses in cancer of the lower lip. X-ray resistant forms of cancer of the lower lip were found in 2% of the patients. Three tables.

FD-095

Sixteen references; all USSR.

Institution : Republic Oncological Dispensary, Latvian SSR (Head Physician, V. E.

Pampe), Riga

Submitted : Presented on Nov 10, 1952 at the meeting of the Republic Surgical

Society, Latvian SSR

SOPIL'NYAK, 'I.G.

Result of close-focus roentgenotherapy of skin cancer. Vop.onk. 1 no.2:66-72 155. (MLRA 8:10)

1. Iz Respublikanskogo onkologicheskogo dispansera (glav.vrach. M.G.Sopil'nyak) Ministerstva zdravookhraneniya Latviyskoy SSR. (SKIN, neoplasms, ther.,x-ray, close-focus technic) (RADIOTHERAPY, in various diseases, cancer of skin, close-focus technic)

SOPILINYAK, M.G.

Diagnosis and therapy of antral rigid gastritis. Vopr.klin.lech. zlok. novoobraz., Riga. 2:187-197 1955.

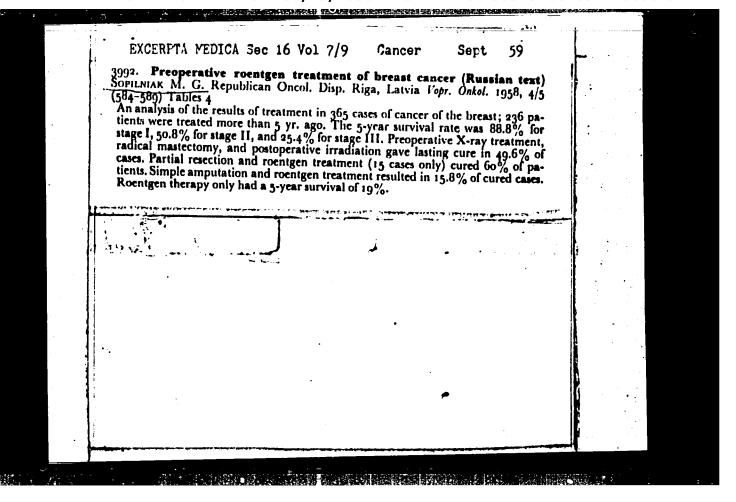
1. Respublikanskiy onkologicheskiy dispenser Latviyskoy SSR (glavvrach - M.G. Sopil'nyak).

(GASTRITIS,

antral rigid gastritis, ding. & ther. (Rus))

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SOPIL'NYAK, M.G., Canc Med Sci -- (diss) "Glose- X-ray therapy in pretumorous diseases and cancer of the lower lip." Riga, 1959, 19 pp (Acad Sci Latvian SSR. Inst of Experimental Medicine) 220 copies (KL, 33-59, 127)

- 73 -

SOPIL'NYAK, M.G. (Riga, Maza Nometnyu, 7, kv.5)

Treatment of lower lip cancer metastases. Vop.onk. 5 no.6:706-710 '59.
(MIRA 12:12)

1. Iz Respublikanskogo onkologicheskogo dispansera Ministerstva zdravookhraneniya Latviyskoy SSR. (LIP, neoplasms

metastatic, surg. & ther. (Rus))

SOPIL'NYAK, M. G.

Close focus roentgenotherapy of pre-neoplastic diseases of the skin, lips and oral cavity. Vop. klin. lech. zlok. novoobraz. 7:225-236-161.

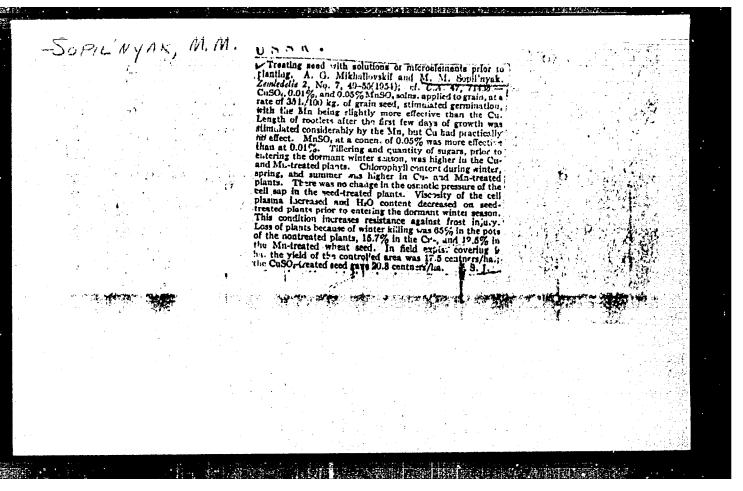
1. Respublikanskiy onkologicheskiy dispanser Kinisterstva zdravookhraneniya Latviyskoy SSR (glavnyy vrache M. G. Sopil'nyak).

(SKIN NEOPLASMS radiother) (MOUTH neopl) (LIPS neopl)

SOPIL'NYAK, M.G. (Riga-2, Malaya Lagernaya, 7, kv.5)

Late results of short range radiotherapy in cancer of the external tegument. Vopr. onk. 9 no.4:99-103 '63. (MIRA 17:9)

1. Iz Respublikanskogo onkologicheskogo dispansera Ministerstva zdraveokhraneniya Latviyskoy SSR (glavnyy vrach - M.G.Sopil'nyak).



SOPIL'NYAK, M.M. Cand Agr Sci -- (diss) "The influence of predecessors upon the conditions of cultivation, harvest, and quality of market of the winter-way wheat in the land of the Ukrainian SSR."

Kiev, 1958. 17 pp. (Min Agr UkSSR. Ukrainian Acad Agr Sci). 100 copies.

(KL, 8-58, 107)

-47-

SOPIL'NYAK, M.M., assistent

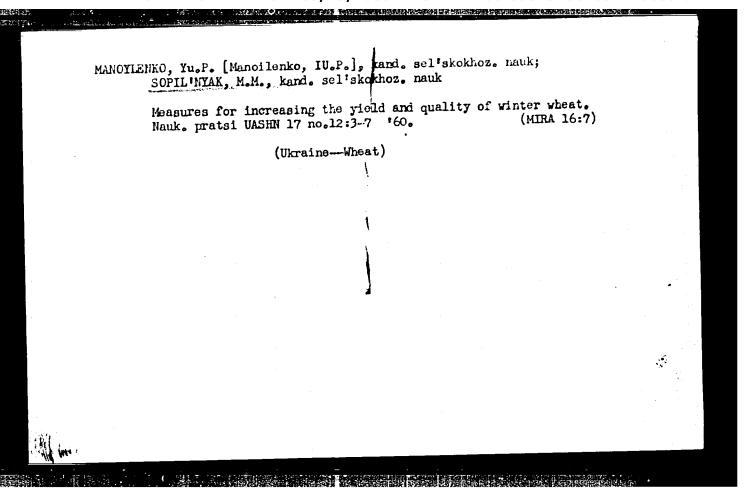
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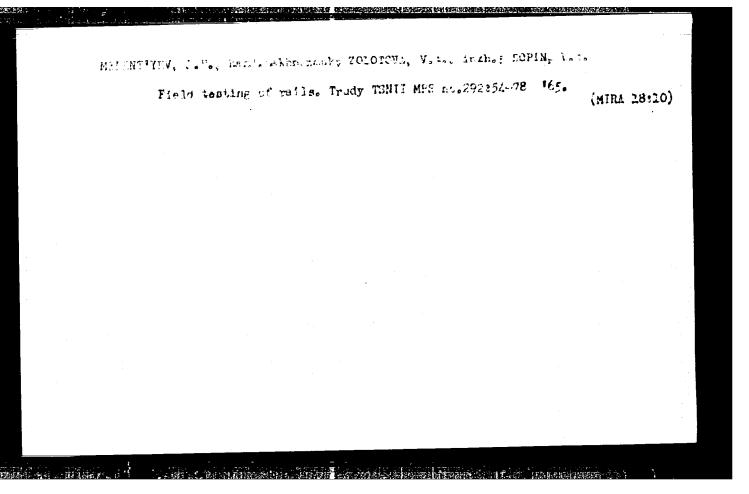
Effect of preceding crops on the growing conditions and yeild of winter wheat in the Ukrainian Polesye. Nauch. trudy UASHN 10:31-39 (MIRA 14:3)

(Polesye--Wheat)

(Rotation of crops)

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KARAKIN, F.F.; RODICHEV, A.F.; PUTIY, G.P.; BASOV, A.P.; PYATAKOV, L.V.; RAUTSEP, A.P. [Rautsepp, A.]; BLAGORRAVOV, S.I.; GRECHIKHO, A.M.; DRUZHININ, N.N.; SHUKHMAN, D.I.; BAUSIN, A.F.; LOYKO, P.G.; CHERNAKOV, B.A.; SHORNIKOV, F.M.; SOPIN, P.F.

Remarks of the members of the Conference. Torf. prom. 37 no.5: 22-28 '60. (MIRA 14:10)

1. Ivanovskiy gosudarstvennyy torfotrest (for Karakin). 2. Svordlovskiy torfotrest (for Rodichev). 3. Gosplan USSR (for Putiy). 4. Leningradskiy gosudarstvennyy trest torfyanoy promyshlennosti (for Basov). 5. Moskovskiy oblastnoy sovnarkhoz (for Pyatakov). 6. Gosudarstvennyy nauchno-tekhnicheskiy komitet Estonskoy SSR (for Rautsep). 7. Ger'kovskiy sovnarkhoz (for Grechikho, Shukhman). 8. Belorusskiy sovnarkhoz (for Grechikho, Shukhman). 9. Yaroslavskiy sovnarkhoz (for Druzhinin). 10. Bobruyskaya mashinno-meliorativnaya stantaiya (for Loyko). 11. Gipromestprom Gosplana RSFSR (for Chernakov). 12. Mezhkolkhoznoye torfopredpriyatiye "Volosovskoye" Leningradskoy oblasti (for Shornikov). 13. Vsesoyuznyy nauchno-issledovatel'skiy institut torfyanoy promyshlennosti (for Sopin). (teat industry)

VEYSBRUT, L.A.; SOPIN, P.F., kand. tekhn. nauk; ZASOSOV, M.V.; SOKOLOVA, S.L.

Combining the oxidation and regeneration of the oxidant in the production of oxalic acid. Trudy VNIITP no.18:213-220 '61. (MIRA 17:1)

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CIA-RDP86-00513R001652420005-6 "APPROVED FOR RELEASE: 08/25/2000

SOPIN, P.F., kand. tekhn. nauk Use of the hydrolysis of upland peat by diluted mineral acids for the production of oxalic acid, ethyl alcohol and other products. Trudy VNIITP no.18:220-231 '61.

SOPIN, P. F.

"Extracting chemicals from peat combined with its artificial dewatering."

Report submitted for the 2nd International Peat Congress, Leningrad, 15-22 Aug 63.

PETROV, V.; SOPIN, V.; AUNAPU, F., prof.

Regional economic councils are searching for hidden potentialities. Sots. trud 7 no.9:11-26 S '62. (MIRA 15:9)

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1. Nachal'nik otdela truda i zarabotnoy platy Sverdlovskogo soveta narodnogo khozyaystva (for Petrov). 2. Nachal'nik otdela truda i zarabotnoy platy Bashkirskogo soveta narodnogo khozyaystva (for Sopin). 3. Altayskiy politekhnicheskiy institut (for Aunapu).

(Industrial management)

Mass application of the method of intermittent observations in the machinery manufacturing enterprises of an economic region. Sots. trud 6 no.4:86-91 Ap '61. (MIRA 16:7) (Bashkir_a--Machinery industry) (Time study)

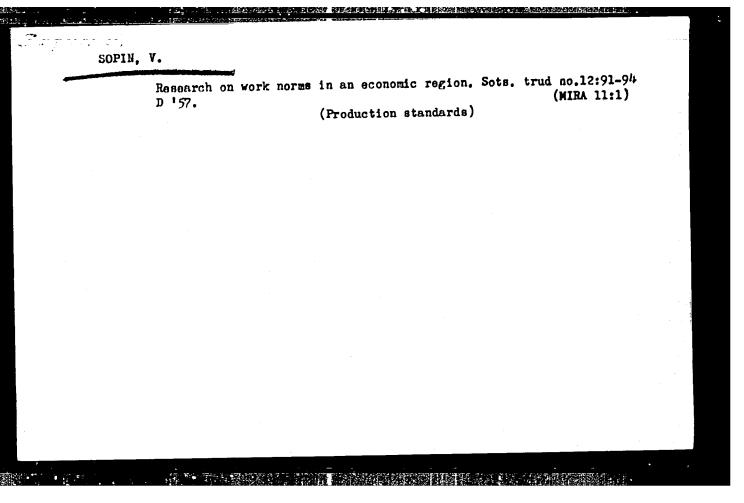
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MASHINSKIY, Iosif Aronovich, inzhener; SOPIN, Ysevolod Ivanovich, kandidat tekhnicheskikh nauk; KURASHEV, V.A., redaktor; LOZBYAKOVA, Ye.S., vedushchiy redaktor; SHIKIN, S.T., tekhnicheskiy redaktor

[Manual for norm setters in oil refineries] Spravochnik normirovshchika na neftepererabatyvaiushchikh zavodakh. Moskva. Gos. nauchnotekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 202 p. (MLRA 10:1)

(Petroleum--Refining-Production standards)

Manual for the rating of equipment ("Manual for the rating of								
	machine tools" by N.Savos'kin, B.Shaskol'skii. Reviewed by V. Sopin). Sots.trud no.6:151-153 Je '57. (MIRA 10:7) (Machine tools) (Savos'kin, N.) (Shaskol'skiy, B.)							
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MASHINSKIY, Iosif Aronovich, kand. ekon. nauk; SOPIN, Vsevolod Ivanovich, kand. tekhn. nauk; KURASHOV, V.A., red.; LEVINA, Ye.S., ved. red.; STARCSTINA, L.D., tekhn.red.

[Technical standards and wages in petroleum refinery and petroleum chemical plants] Tekhnicheskoe normirovanie i zarabotnaia plata na neftepererabatyvaiushchikh i neftekhimicheskikh predpriiatiiakh; spravochnaia kniga. 2., dop. i perer. izd. Moskva, Gostoptekhizdat, 1963. 232 p. (MIRA 16:10)

(Petroleum refineries--Production standards)
(Wages--Petroleum workers) (Petroleum chemicals)

BAGRYANSKI, K.V., kandidat tekhnicheskikh nauk; KRAMCHANINOV, I.M., inzhener; KASSOV, D.S., inzhener; SOPIN, V.T., inzhener

Automatic hard facing of blooming mill rolls. Svar. proizv. no.5:20-23 My '55. (MIRA 8:9) (Hard facing)

Sirva, C

USSR/Welding

135-2-4/12

SUBJECT: AUTHORS:

Bagryanskiy, K.V., Candidate of Technical Sciences; Sopin, V.T.

engineer; and Kramchaninov, I.M., engineer.

Automatic surfacing of rolling mill rollers under ceramic TITLE:

fluxes. (Avtomaticheskaya naplavka valkov prokatnykh stanov

pod keramicheskimi flyusami).

PERIODICAL:

"Svarochnoye Proizvodstvo", 1957, # 2, pp 13-15 (USSR).

ABSTRACT:

Practical experience in re-surfacing worn rolling mill - rollers

in the metallurgical plant "Azovstal'".

Surfacing is performed on a lathe adapted for the process by adding a reductor to slow down revolving, and installing on one of the lathe carriages the welding head on a bracket. The additional reductor keeps the revolving roll in the speed range of 18-30 m/hr. The bracket carrying the welding head is turnable a full circle and so does not interfere when the roll is installed in the lathe. The capacity of the flux container and the welding wire container allow 9 hours of continuous work. Pre-heating the work surface is done by two gas-air torches made of a tube and bent in conformity with the roll surface.

Card 1/4

TITLE:

Automatic surfacing of rolling mill rollers under ceramic fluxes. (Avtomaticheskaya naplavka valkov prokatnykh stanov pod keramicheskimi flyusami). 135-2-4/12

base metal (steel 55 x) = 0.5 C, 1.10 Cr, 0.51 Mn, 0.18 Si, 0.1 Ni, 0.03 S, 0.03 P.

Hardness of coating is easily controlled by replacing ferrochromium $\mathfrak{T}\rho$ -6 by other ferrochromium grades, as $\mathfrak{T}\rho$ -4, $\mathfrak{T}\rho$ -1, $\mathfrak{T}\rho$ -00, which have different carbon content, or by increasing the graphite content in the flux. Higher carbon content in the flux not only increases the carbon content in coating metal but also is conductive to better transition of alloying elements from the flux into the coating metal.

Laboratory inspection did not discover any material influence of arc voltage on the composition of coating. For this laboratory test, the welds were made on the machine $\triangle AC$ =1000-2, boratory test, the welds were made on the machine $\triangle AC$ =1000-2, with 28-36V and 550A, welding wire C_B =08 of 5 mm diameter, and the flux $\supset CC$ =320.

The roller coating obtained in the plant by the described technology is of uniform composition and hardness, shows uniform wear in service. It is not necessary to re-dry the flux which is kept in open cases under a shed. In general,

Card 3/4

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BAGRYANSKIY, K.V., kand.tekhn.nauk; DOBROTIMA, Z.A., kand.tekhn.nauk; SOPIN, V.T., inzh.; KAL'YANOV, V.N., inzh.

Effect of operating conditions on the chemical composition of metals deposited under a ZhS-type ceramic flux. Svar.proisv. no.8:20-22 Ag *60. (MIRA 13:7)

1. Zhdanovskiy metallurgicheskiy institut. (Hard facing) (Flux(Metallurgy))

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

SOPIN, Ye. D.

Carbonic Acid Anhydrase

Effect of some factors on the activity of carbonic anhydrase. Nauk.zap.Kyiv.un. 9 no.7:169-174 '50.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420005-6"

Chemical Abstracts
May 25, 1954
Foods

Very The carbonic anhydrase activity. R. F. Sopin (T. G., Sherchenko State Univ., Kiew). Univ. Blaim. John Mark.

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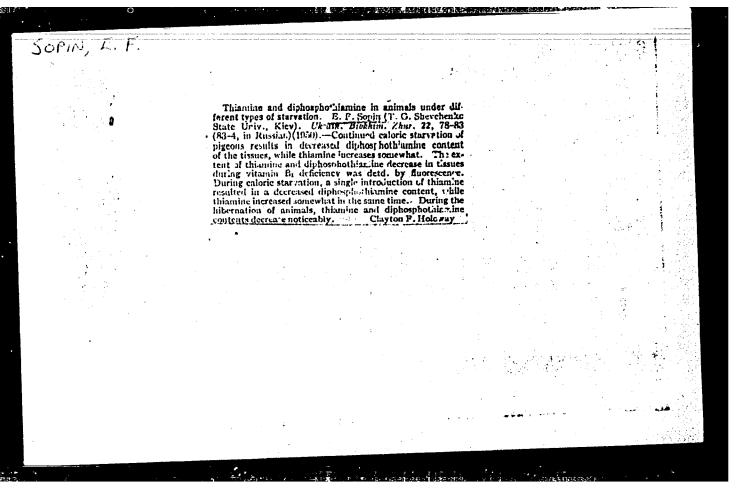
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PIN, E.F.								•	
- Section (Section 1998)		The effect of some antibiotics on the metabolic processes. R. P. Sopin and L. K. Dyl. Naukovi Zapiski Kiini'k. Univ. 17, No. 7, 153-5(1953); Referat. Zhur. Khim., Biol.' Khim. 1955, No. 9284.—A study was made of the effect of penicillin, streptomycin, gramicidin, and leutidin on individual phases of the carbohydrate metabolism in the liver of mice and of rabbits. Leutidin and streptomycin lower the phosphorylase activity of the liver and muscles, and penicilin and gramicidin have practically no effect on this enzyme. B. S. Levine.							
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